

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/002703

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl.⁷ G01C21/36, G08G1/0969, G09B29/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int. Cl.⁷ G01C21/00-21/36, G01C23/00-25/00, G08G1/00-9/02,
G09B29/00-29/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 8-254437 A (Aisin AW Co., Ltd.), 01 October, 1996 (01.10.96), Par. Nos. [0012], [0013], [0018], [0019] & WO 1993/007447 A1 & EP 560987 A1 & EP 560987 B1 & US 6317687 B1	1, 4, 7-9 2, 3, 5, 6
Y A	JP 2002-056110 A (Alpine Electronics, Inc.), 20 February, 2002 (20.02.02), Par. Nos. [0034], [0035] (Family: none)	1, 4, 7-9 2, 3, 5, 6
Y A	JP 2001-165693 A (Toshiba Corp.), 22 June, 2001 (22.06.01), Par. Nos. [0072] to [0085] & US 6339746 B1	1, 4, 7-9 2, 3, 5, 6

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

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- O- document referring to an oral disclosure, use, exhibition or other means
- P- document published prior to the international filing date but later than the priority date claimed

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- X- document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- Y- document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- &- document member of the same patent family

Date of the actual completion of the international search
17 May, 2005 (17.05.05)Date of mailing of the international search report
31 May, 2005 (31.05.05)Name and mailing address of the ISA/
Japanese Patent Office

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